



Australian Government

DEFINT015 Locate electromagnetic emissions

Release: 1

DEFINT015 Locate electromagnetic emissions

Modification History

Release 1. This is the first release of this unit of competency in the DEF Defence Training Package.

Application

This unit specifies the skills and knowledge required to establish the direction from which a received emission was transmitted ('direction finding') from the clandestine or overt interception of a transmitted electromagnetic emission ('intercept'). This unit also covers the production and reporting of a triangulated emission point-of-origin assessment.

It includes preparing for direction finding activities, and intercepting and locating an electromagnetic emission. It also includes reporting a triangulated emission point-of-origin assessment.

This unit applies to Defence personnel working in electronic warfare and signals intelligence fields but may be applicable to any persons working in a similar role.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Typically, persons undertaking this unit work independently with indirect supervision, and undertake complex tasks within familiar and unfamiliar contexts.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable

Competency Field

Intelligence

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Prepare for direction finding activities

- 1.1** Develop a direction finding task plan, detailing key tasks and timelines in accordance with organisational procedures
- 1.2** Prepare direction finding equipment considering task requirements and duration in accordance with manufacturer specifications
- 1.3** Obtain and clarify tasks and orders, as required
- 1.4** Undertake engagement with all identified stakeholders, in accordance with task requirements and operational procedures

2 Intercept electromagnetic emission

- 2.1** Operate direction finding equipment in accordance with manufacturer specifications and organisational procedures
- 2.2** Intercept target electromagnetic emission in accordance with direction finding task
- 2.3** Confirm identity of target electromagnetic emission in accordance with organisational procedures
- 2.4** Identify relevant legal requirements and apply during interception activities

3 Locate electromagnetic emission

- 3.1** Determine a line of bearing to target emission
- 3.2** Recognise and apply methods to improve accuracy of direction finding measurements
- 3.3** Validate electromagnetic emission and report direction finding measurement in accordance with organisational procedures
- 3.4** Apply direction finding processes to multiple direction finding sites to meet task requirements
- 3.5** Determine a best point estimate of electromagnetic emission point of origin, using lines of bearing communicated from multiple sensors
- 3.6** Document and report electromagnetic direction finding outcomes to relevant personnel in accordance with

organisational procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to DEFINT015 Locate electromagnetic emissions.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>